

WHAT IS CLAIMED IS:

1. A lubricant injector comprising:
a body containing a reciprocal piston for dispensing lubricant from the body;
a pin extending from the piston through an opening in the body; and
a sealing assembly in said opening surrounding the pin for sealing against
5 leakage of lubricant from the body along the pin;
said sealing assembly comprising a low-pressure sealing member in sealing
contact between the pin and the body, said low-pressure sealing member being
effective for sealing at low pressures, and a high-pressure sealing member in
sealing contact between the pin and the body, said high-pressure sealing member
10 being effective for sealing at pressures higher than said low-pressure sealing
member.
2. A lubricant injector as set forth in claim 1 wherein the low-pressure
sealing member has an annular shape with an inner edge in sliding sealing
contact with the pin and an outer edge in sealing contact with a surface of the
body at least partially defining said opening.
3. A lubricant injector as set forth in claim 2 wherein the low-pressure
sealing member is generally flat.
4. A lubricant injector as set forth in claim 2 wherein the high-pressure
sealing member has an annular shape with an inner surface in sliding sealing
contact with the pin and an outer surface in sealing contact with said surface of
the body.
5. A lubricant injector as set forth in claim 4 wherein the high-pressure
sealing member is a cup seal having a base, an outer annular rim extending from
the base defining said outer surface, and an inner hub extending from the base
spaced inward from the rim and defining said inner surface.

6. A lubricant injector as set forth in claim 5 wherein the low-pressure sealing member and the high-pressure sealing member are disposed in face-to-face contact.

7. A lubricant injector as set forth in claim 6 wherein the pin extends from an end of the body.

8. A lubricant injector as set forth in claim 7 wherein the pin is oriented vertically and the high-pressure sealing member is positioned below the low-pressure sealing member.

9. A lubricant injector as set forth in claim 4 wherein the low-pressure sealing member is made of nylon.

10. A lubricant injector as set forth in claim 4 wherein the high-pressure sealing member is made of polyurethane.

11. A lubricant injector as set forth in claim 4 further comprising a stop, an outer end of the pin being engageable with the stop for limiting stroke of the piston.

12. A lubricant injector as set forth in claim 4 wherein the low-pressure sealing member and the high-pressure sealing member are press fit in the opening.

13. A method of sealing a lubricant injector, the injector having a body containing a reciprocal piston for dispensing lubricant from the body and a pin extending from the piston through an opening in the body, the method comprising the steps of:

5 installing a low-pressure annular sealing member in position surrounding the pin in said opening such that an inner edge of the low-pressure sealing member is

in sliding sealing contact with the pin and an outer edge of the low-pressure sealing member is in sealing contact with a surface of the body at least partially defining said opening, said low-pressure sealing member being effective for sealing at low pressures; and

installing a high-pressure annular sealing member in position surrounding the pin in said opening such that an inner surface of the high-pressure sealing member is in sliding sealing contact with the pin and an outer surface of the high-pressure sealing member is in sealing contact with said surface of the body, said high-pressure sealing member being effective for sealing at pressures higher than said low-pressure sealing member.

14. A method of sealing a lubricant injector as set forth in claim 13 wherein said step of installing a low-pressure sealing member includes placing the low-pressure sealing member in face-to-face contact with the high-pressure sealing member.

15. A method of sealing a lubricant injector as set forth in claim 13 wherein said step of installing a low-pressure sealing member comprises press fitting the low-pressure sealing member into the opening.

16. A method of sealing a lubricant injector as set forth in claim 13 wherein said step of installing a high-pressure sealing member comprises press fitting the high-pressure sealing member into the opening.